PATENT COOPERATION TREATY

BURNS. DO	PANE, SWECKER & MATHIS. RECEIVED
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INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To: RONALD L. GRUDZIECKI PRE BURNS, DOANE, SWECKER & MATHIS, L.L.P. P.O. BOX 1404

WRITTEN OPINION

ALEXANDRIA, VA 22313-1404 Perporse to Written serior due 3.3.00

Date of Mailing (day/month/year)

REPLY DUE Applicant's or agent's file reference within ONE months from the above date of mailing 028870-168 International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/US99/00391 23 JANUARY 1998 22 JANUARY 1999 International Patent Classification (IPC) or both national classification and IPC Please See Supplemental Sheet. Applicant USBIOMATERIALS CORPORATION

ı.	This written of	pinion is the first (first, etc.) drawn by this International Preliminary Examining Authority.			
2.	This opinion contains indications relating to the following items:				
	ΙX	Basis of the opinion			
	11	Priority			
	III	Non-establishment of opinion with regard to novelty, inventive step or industrial applicability			
	ıv 🔲	Lack of unity of invention			
	v x	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	V1	Certain documents cited			
	VII	Certain defects in the international application			
	VIII	Certain observations on the international application			
3. The applicant is hereby invited to reply to this opinion.		is hereby invited to reply to this opinion.			
	When?	See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension., see Rule 66.2(d).			
	How?	By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.			
	Also	For an additional opportunity to submit amendments, see Rule 66.4. For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis. For an informal communication with the examiner, see Rule 66.6.			
	If no reply	is filed, the international preliminary examination report will be established on the basis of this opinion.			
4.		by which the international preliminary eport must be established according to Rule 69.2 is: 23 MAY 2000			

Name and mailing address of the IPEA/US

Commissioner of Patents and Trademarks

Box PCT Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

JOHN PAK

Telephone No.

308-1235

Form PCT/IPEA/408 (cover sheet) (January 1994)*

PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY **PCT** RONALD L. GRUDZIECKI BURNS, DOANE, SWECKER & MATHIS, L.L.P. P.O. BOX 1404 WRITTEN OPINION **ALEXANDRIA, VA 22313-1404** (PCT Rule 66) Date of Mailing 03 FEB 2000 (day/month/year) REPLY DUE Applicant's or agent's file reference within ONE months from the above date of mailing 028870-168 International application No. International filing date (day/month/year) Priority date (day/month/year) 23 JANUARY 1998 PCT/US99/00391 **22 JANUARY 1999** International Patent Classification (IPC) or both national classification and IPC Please See Supplemental Sheet. Applicant USBIOMATERIALS CORPORATION 1. This written opinion is the first (first, etc.) drawn by this International Preliminary Examining Authority. 2. This opinion contains indications relating to the following items: Basis of the opinion II **Priority** Ш Non-establishment of opinion with regard to novelty, inventive step or industrial applicability ľV Lack of unity of invention Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Certain documents cited Certain defects in the international application VII VIII Certain observations on the international application 3. The applicant is hereby invited to reply to this opinion. See the time limit indicated above. The applicant may, before the expiration of that time limit, request this When? Authority to grant an extension., see Rule 66.2(d). By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. How? For the form and the language of the amendments, see Rules 66.8 and 66.9. For an additional opportunity to submit amendments, see Rule 66.4. Also For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis. For an informal communication with the examiner, see Rule 66.6. If no reply is filed, the international preliminary examination report will be established on the basis of this opinion. 4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 23 MAY 2000 Name and mailing address of the IPEA/US Authorized officer Commissioner of Patents and Trademarks Box PCT JOHN PAK Washington, D.C. 20231 Telephone No. 308-1235

Form PCT/IPEA/408 (cover sheet) (January 1994)*

Facsimile No. (703) 305-3230

WRITTEN OPINION

International application No.

PCT/US99/00391

L. Bas	sis of	the opinion		·
			the basis of (Substitute sh referred to in this opinion	neets which have been furnished to the receiving Office in response to an as "originally filed".):
	x	the internations	l application as origin	nally filed.
	x	the description,		, as originally filed.
				, filed with the demand.
			pages	, filed with the letter of
	x	the claims,	Nos. 1-8	_ , as originally filed.
				_ , as amended under Article 19.
			NONE	_ , filed with the demand.
			Nos. NONE	, filed with the letter of
	x	the drawings,	sheets/fig NONE	, as originally filed.
			sheets/fig NONE	, filed with the demand.
			sheets/fig NONE	, filed with the letter of
	x x	the description,	pages NONE Nos. NONE	· · · · · · · · · · · · · · · · · · ·
	X	the drawings,	sheets/fig NONE	
3.	con			me of) the amendments had not been made, since they have been d, as indicated in the Supplemental Box Additional observations below
		l observations, if	necessary:	
NONE	<u> </u>			
			•	

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V. Reasoned statement under Rule 66.	2(a)(ii) with no.	and to nevelty inventive step on indu	etrial applicability.
citations and explanations supporti			and applicability;
1. STATEMENT			
Novelty (N)	Claims	1-8	YES
	Claims	NONE	NО
Inventive Step (IS)	Claims	NONE	YES
•	Claims	1-8	NO
Industrial Applicability (IA)	Claims	1-8	YES
industrial Applicationity (IA)	Claims	NONE	NO
Shimono et al (US 5,290,544). WO 97/17401 teaches that bioactissues such as skin (paragraph bridging pand P ₂ O ₅ (page 4, lines 5-13). Shimono et al. (US 5,290,544) d formulations such as skin lotion (column litis noted that all claims are operegard, to incorporate such agents in bioactissues such as the skin, would have been	p under PCT Articular purposes a such ages 4 and 5). Consistence of the such as the such a	peutic agents to bioactive glass to treat inflatiself is known to elicit beneficial physiological of the routineer in the art since doing softjuvant agents. Therefore, the claimed inve	and to a variety of soft des SiO ₂ , Na ₂ O, CaO antibacterial agents for ammation. In this gical responses to soft would assist in the
For these reasons, the claims lac NEW CITATIONS WO 97/17401 A1 (BONFIELD et al.) 15			

US 5,290,544 A (SHIMONO et al.) 01 March 1994, see column 1, lines 46-53, column 2, lines 45-48.

WRITTEN OPINION

International application No.

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Sup	plemental	Box
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(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

TIME LIMIT:

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.

CLASSIFICATION:

The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(6): A61K 9/14, 33/00, 33/06, 33/08, 33/16, 33/22, 33/42. and US Cl.: 424/400, 401, 484, 489, 601, 602, 606, 657, 660, 675, 688, 692, 722, 724; 514/830, 859, 861, 862, 863, 864, 865, 886, 887, 951.